ICF-5800L

AEP Model
Canada Model

5-BAND PORTABLE RADIO

SPECIFICATIONS

Circuit: Superheterodyne

Antennas: FM/SW telescopic antenna (11 steps, 10 cm)
MW/LW bar antenna (10 mm dia. x 160 mm)

Frequency Ranges:
FM: 87.5 – 108 MHz (3.43 – 2.78 m)
MW: 530 – 1,605 kHz (566 – 187 m)
LW: 150 – 285 kHz (2,000 – 1,050 m)
SW1: 1.6 – 4.5 MHz (187 – 66.7 m)
SW2: 4.5 – 12 MHz (66.7 – 25 m)

Intermediate Frequencies:
FM: 10.7 MHz
MW/LW: 468 kHz

Sensitivity at 50 mW output:
FM: Maximum: 0.79 μV (-2 dB) at 6 dB S/N
Usable: 2.5 μV (8 dB) at 30 dB S/N
MW: Maximum: 25 μV/m (28 dB/m) at 6 dB S/N
LW: Maximum: 100 μV/m (40 dB/m) at 6 dB S/N
SW1: Maximum: 1.58 μV (4 dB) at 6 dB S/N
SW2: Maximum: 1.58 μV (4 dB) at 6 dB S/N

Selectivity: MW: 43 dB at 1,400 kHz, ±10 kHz off-resonance

Signal-to-Noise Ratio:
FM: 60 dB at 98 MHz, with 560 μV (55 dB) input
MW: 38 dB at 1,000 kHz with 1 mV/m (60 dB/m) input
LW: 31 dB at 220 kHz, with 1 mV/m (60 dB/m) input
SW1: 46 dB at 3 MHz, with 160 μV (44 dB) input
SW2: 44 dB at 7 MHz, with 160 μV (44 dB) input

Jacks:
Earphone jack
Record out jack
AUX IN jack
MPX OUT jack
EXT POWER IN DC 6 V

Power Requirements: DC: 6 V
Battery size C, 4 pcs
Car battery cord DCC-127 for 12-V car battery
AC power adaptor AC-456 for AC power supply

Current Drain: DC 33 mA with no signal input at AM
DC 40 mA with no signal input at FM

Maximum Power Output: 2,200 mW at 10 % distortion
4,000 mW maximum

Speaker: 10 cm (4 inches) dia, 8 Ω

Semiconductors: 14 transistors, 9 diodes, 1 IC

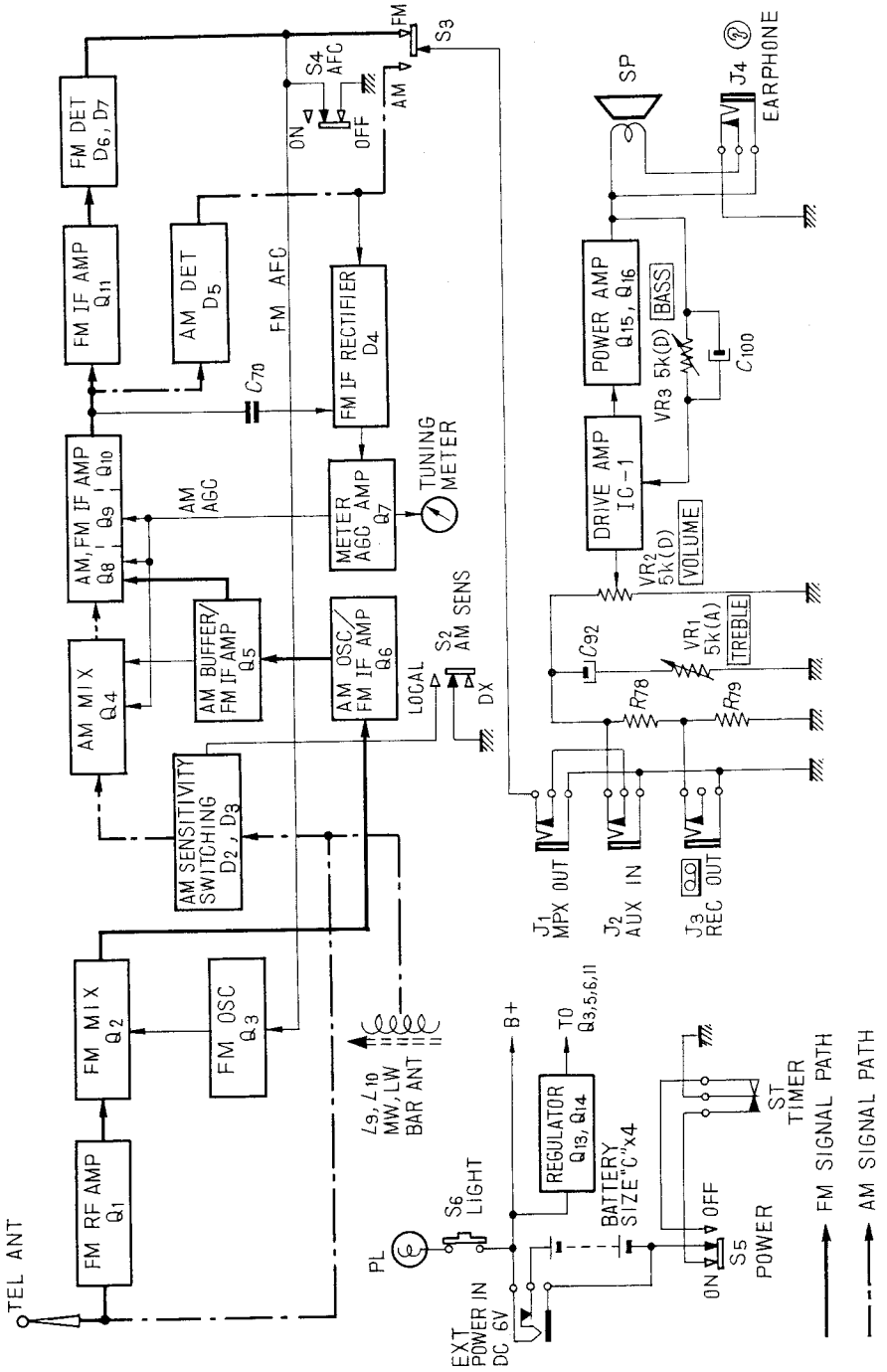
Dimensions: 208 (w) x 228 (h) x 84 (d) mm
8¼ (w) x 9 (h) x 3⅜ (d) inches

Weight: 2 kg, 4 lb 7 oz with batteries

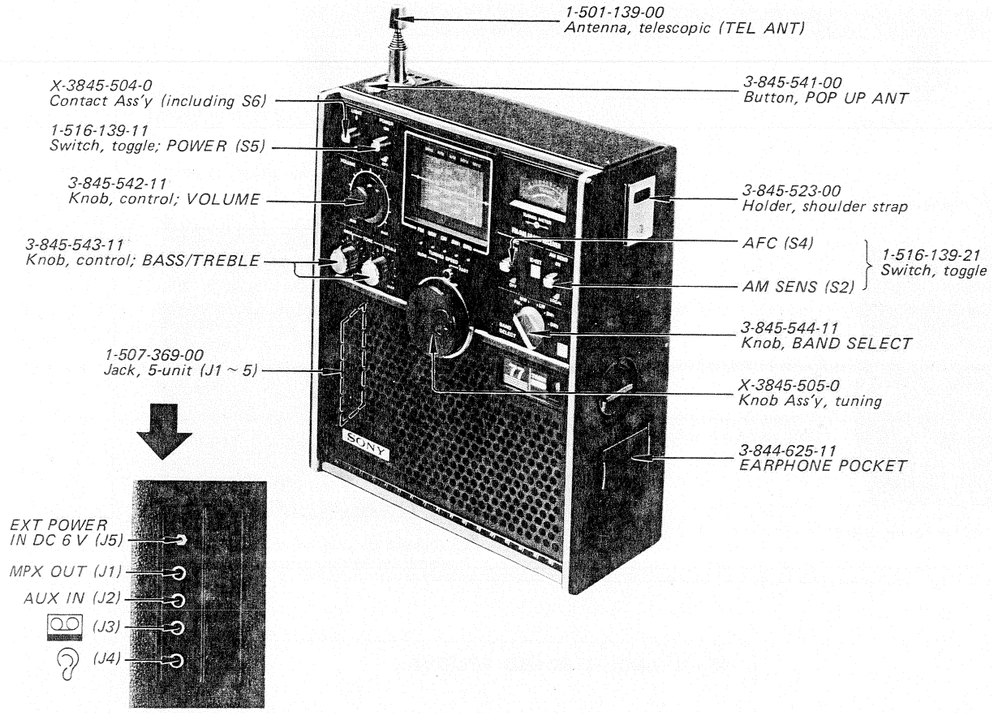
SONY®
SERVICE MANUAL

SECTION 1
OUTLINE

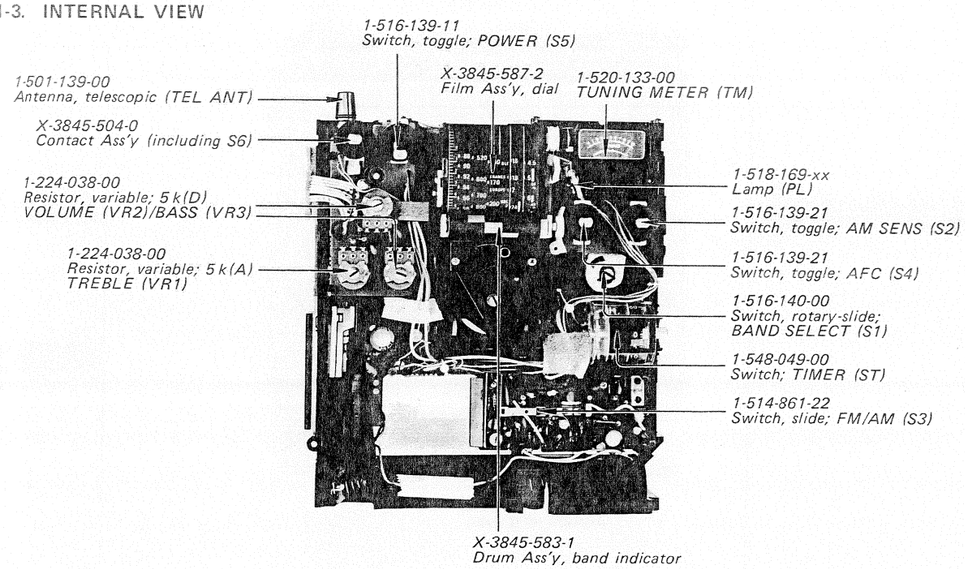
1-1. BLOCK DIAGRAM



1-2. EXTERNAL VIEW



1-3. INTERNAL VIEW



1-4. TUNING DIAL MECHANISM

The ICF-5800L uses a two-speed tuning mechanism. The tuning mechanism uses a combination planetary-drive reduction mechanism with steel balls and clutches. It makes the short-wave reception easy.

Fig. 1 shows the fundamental speed-reduction system. When the follower wheel is fixed and the drive shaft is rotated, the steel balls (three) rotate around the drive shaft as shown by the arrows → and revolves around the follower wheel as shown by the arrow ➡ simultaneously. Rotation with reduced speed is obtained coaxially with the drive shaft by utilizing the revolution. When the follower wheel is not fixed and the drive shaft is rotated, the steel balls do not rotate themselves but revolve together with the drive shaft and the follower wheel around the drive shaft, and no speed reduction is obtained.

Fig. 2 shows the tuning mechanism of the ICF-5800L. This figure shows that the clutch A is separated from clutch B by the clutch lever and is pressed against the rubber brake. In this condition, the clutch A does not rotate. Accordingly the follower wheel does not rotate and the rotation force of the drive shaft is transmitted to the pulley with speed reduced.

When the clutch lever is pressed in the direction shown by the arrow, clutch A separates from the rubber brake with the aid of the clutch return spring and the clutch A gangs clutch B. In this condition, the mechanism is so designed that the clutch B rotates together with the tuning shaft. So the clutch B, clutch A ganged to clutch B and the follower wheel rotate following the rotation of the tuning shaft and the rotation speed is not reduced. The speed reduction ratio of the mechanism is 5 to 1.

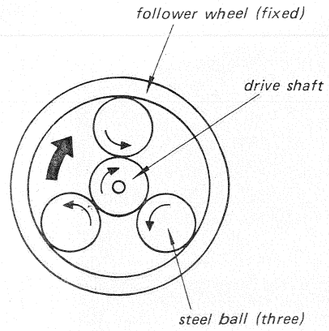


Fig. 1

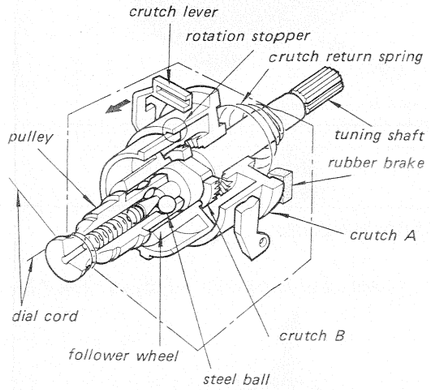
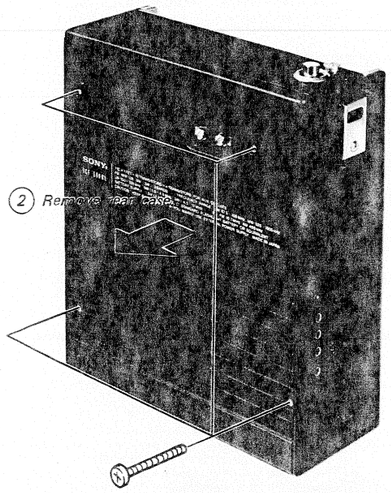


Fig. 2

SECTION 2
DISASSEMBLY

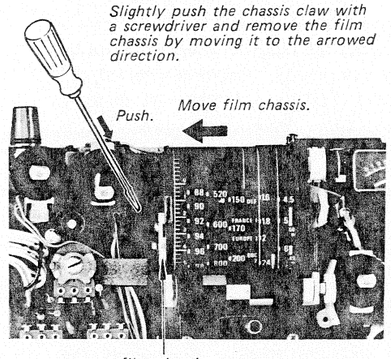
REAR CASE REMOVAL



1 Remove four self-tapping screws, P 3x52.

DIAL FILM CHASSIS REMOVAL

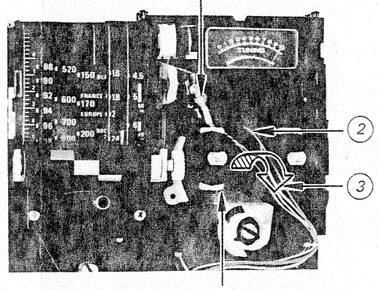
Slightly push the chassis claw with a screwdriver and remove the film chassis by moving it to the arrowed direction.



film chassis

SWITCH CIRCUIT BOARD REMOVAL

1 Remove pilot lamp.



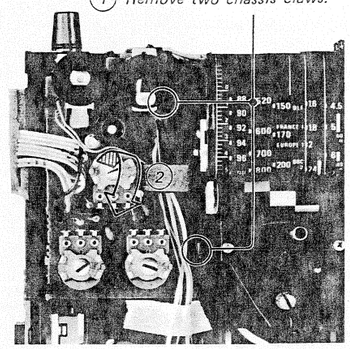
2 Remove chassis claw.

3 Remove circuit board by turning it over.

switch circuit board

CONTROL CIRCUIT BOARD REMOVAL

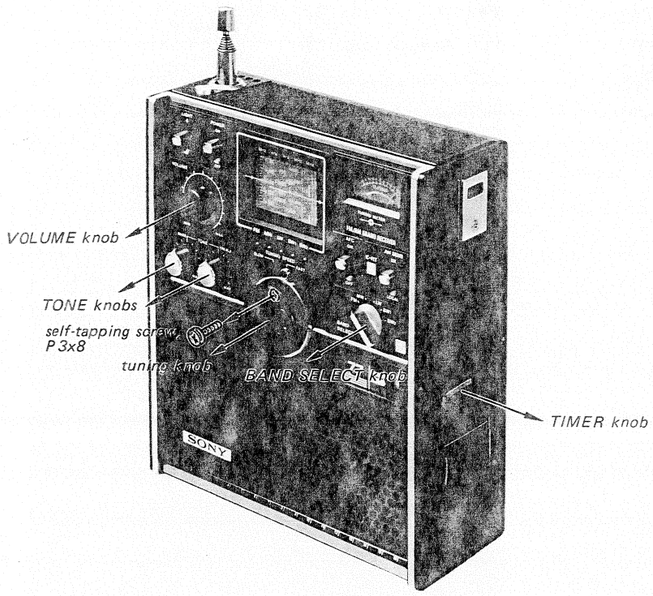
1 Remove two chassis claws.

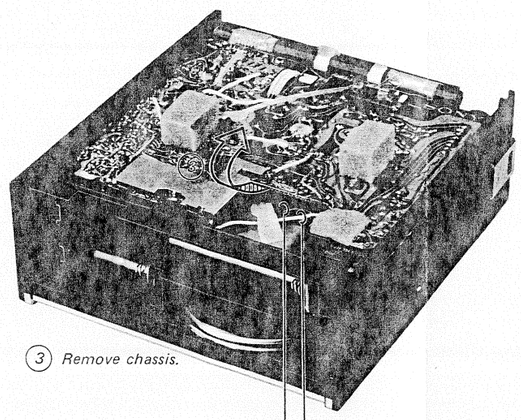


2 Remove the control circuit board turning it over.

MAIN CHASSIS REMOVAL

1 Pull off six knobs and a self-tapping screw, P 3x8.





3 Remove chassis.

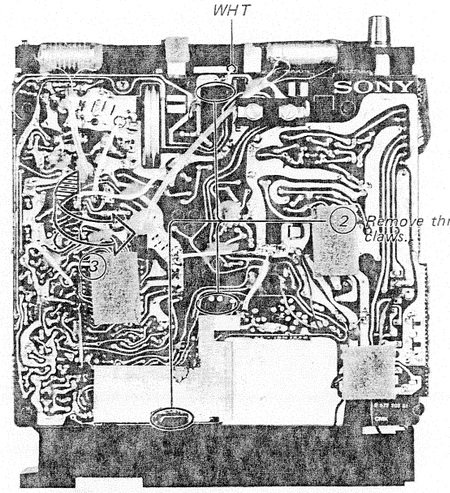
WHT WHT

2 Unsolder two speaker leads at circuit board.

MAIN CIRCUIT BOARD REMOVAL

1 Unsolder lead wire.

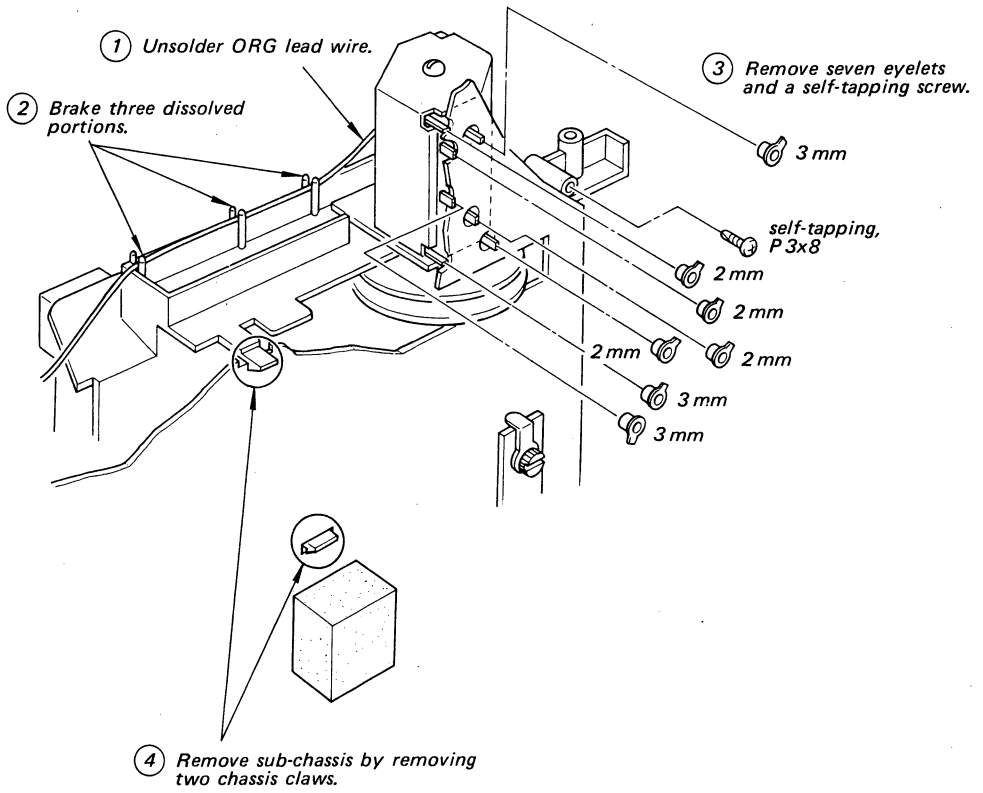
WHT



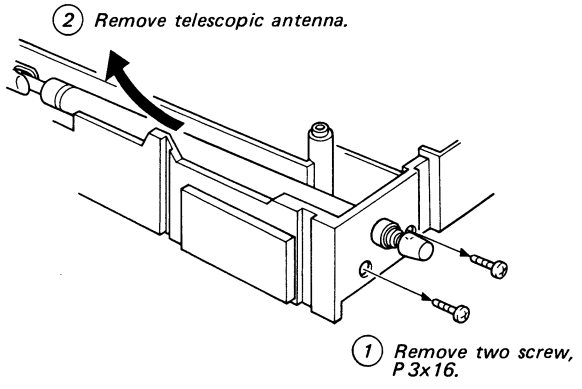
2 Remove three chassis claws.

3 Remove the main circuit board by turning it over.

SUB CHASSIS REMOVAL

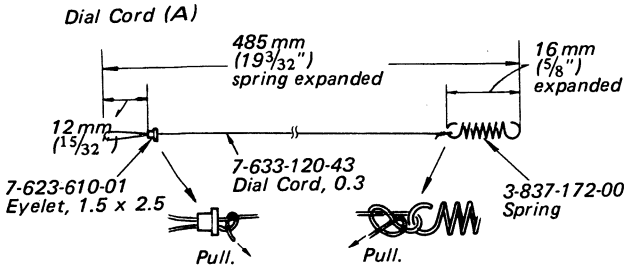


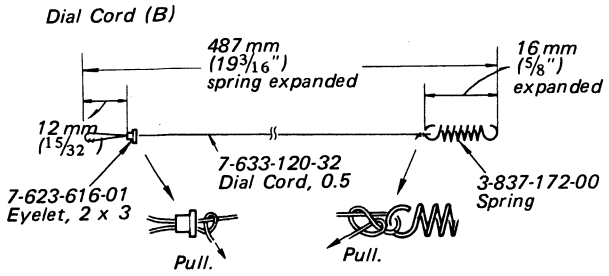
TELESCOPIC ANTENNA REMOVAL



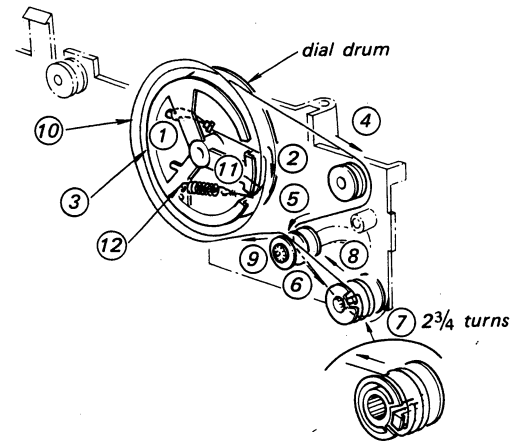
DIAL CORD STRINGING

1. Remove the main circuit board, dial film chassis and the sub chassis.
2. Assemble dial cords, eyelets and springs as shown below.

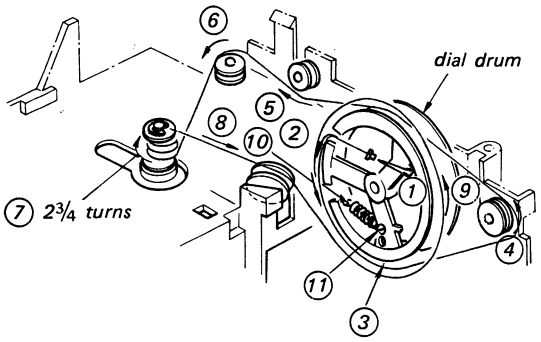




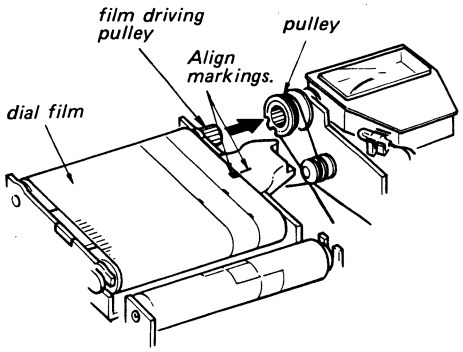
3. Set the dial drum to the full clockwise position, and string the dial cord (A) in the numerical order



4. Set the dial drum to the full counterclockwise position and string the dial cord (B) in the numerical order.



5. Apply a little amount of locking compound to the knoted portions.
6. Set the sub chassis back onto the main circuit board.
7. Align the markings on the dial film and the dial scale transparent cover, and put the film driving pulley into the pulley on the sub chassis.



SECTION 3
ADJUSTMENTS

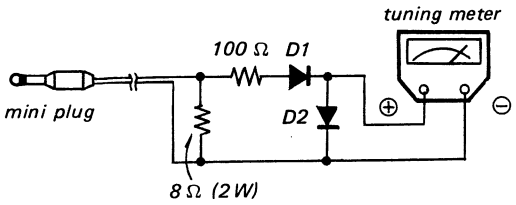
Test Equipment/Tools Required:

AM rf signal generator
FM rf signal generator
VOM
Lead antenna
8 Ω, 2 W resistor

Note: 1. Modulation
AM: 30 % amplitude modulation by 400 Hz signal.
FM: ±22.5 kHz frequency deviation modulated by 400 Hz signal.

2. AM, FM rf signal generator output level should be useable lowest possible for following adjustments.

3. When 0.5~1.5 V AC range is not available on the VOM, use a tuning meter together with the network as shown below.



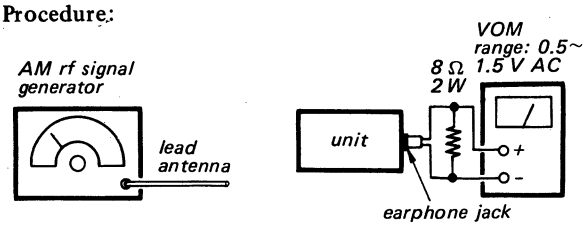
D1, 2: germanium power transistor, 2SB495, etc.

1. AM I-f Alignment

Settings:

BAND SELECT switch:	MW
VOLUME control:	MAX
TONE controls:	MAX
AM SENS switch:	LOCAL

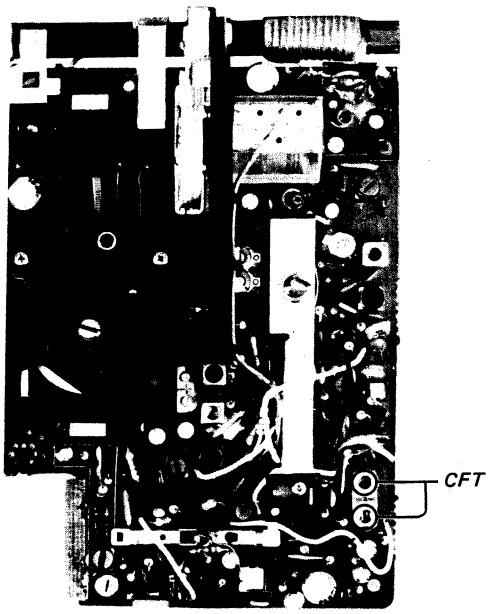
Procedure:



455 kHz (modulated 30 % by 400 Hz signal)

Adjust	VOM reading
CFT	maximum

Adjustment Location:

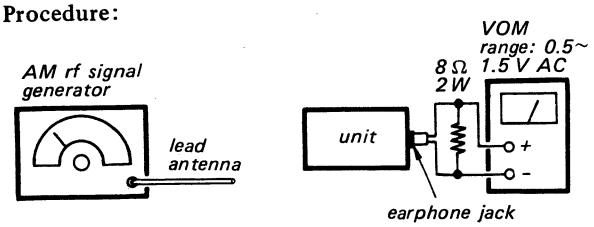


2. LW Frequency Coverage and Tracking Adjustments

Settings:

BAND SELECT switch:	LW
VOLUME control:	MAX
TONE controls:	MAX
AM SENS switch:	LOCAL

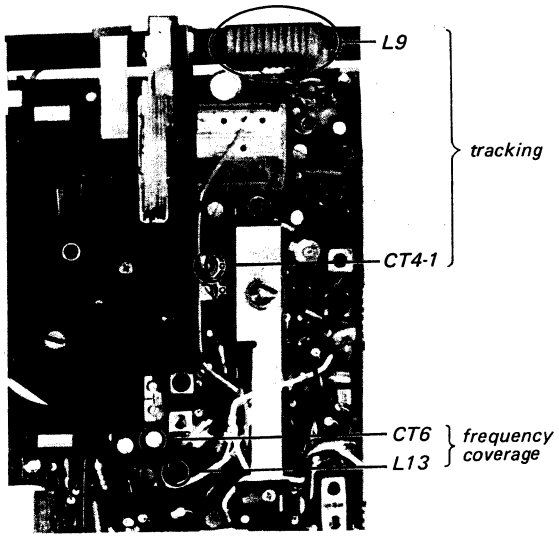
Procedure:



Adjustment	Step	AM rf signal generator frequency	Tuning knob	Adjust	VOM reading
Frequency Coverage	1	145 kHz	fully counter-clockwise	L13	maximum
	2	300 kHz	fully clockwise	CT6	maximum
Tracking	1	185 kHz	tune in 185 kHz	L9	maximum
	2	260 kHz	tune in 260 kHz	CT4-1	maximum

Note: Repeat above steps two or three times until desired result is obtained ending with step 2. Fix L9 with wax after adjustment.

Adjustment Locations:

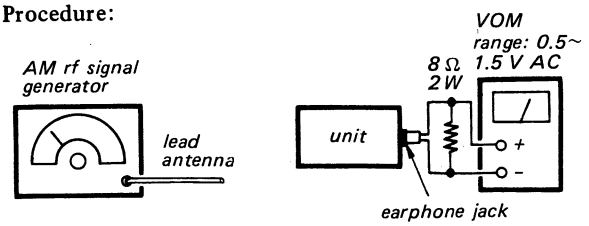


3. MW Frequency Coverage and Tracking Adjustments

Settings:

BAND SELECT switch:	MW
VOLUME control:	MAX
TONE controls:	MAX
AM SENS switch:	LOCAL

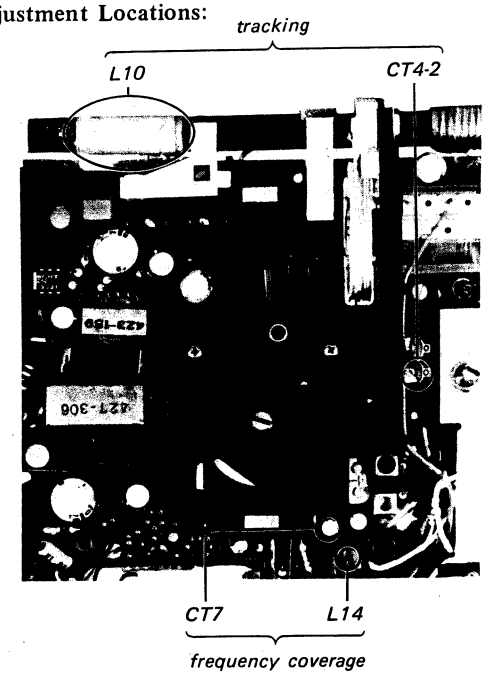
Procedure:



Adjustment	Step	AM rf signal generator frequency	Tuning knob	Adjust	VOM reading
Frequency Coverage	1	510 kHz	fully counter-clockwise	L14	maximum
	2	1,680 kHz	fully clockwise	CT7	maximum
Tracking	1	620 kHz	tune in 620 kHz	L10	maximum
	2	1,440 kHz	tune in 1,440 kHz	CT4-2	maximum

Note: Repeat above steps two or three times until desired result is obtained ending with step 2. Fix L10 with wax after adjustment.

Adjustment Locations:

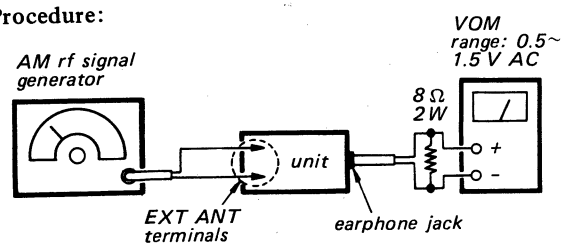


4. SW1 Frequency Coverage and Tracking Adjustments

Settings:

BAND SELECT switch:	SW1
VOLUME control:	MAX
TONE controls:	MAX
AM SENS switch:	LOCAL

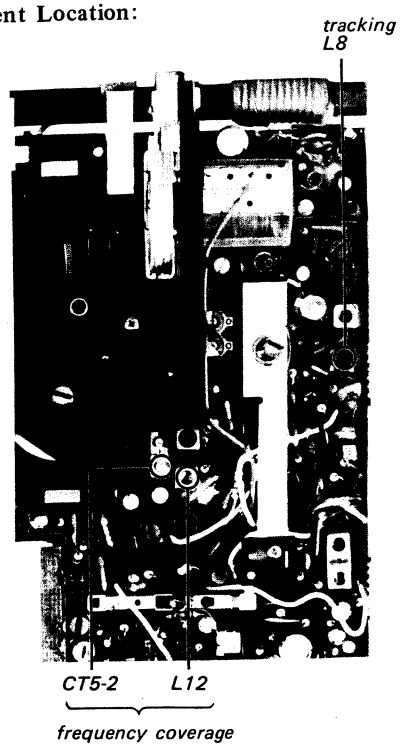
Procedure:



Adjustment	Step	AM rf signal generator frequency	Tuning knob	Adjust	VOM reading
Frequency Coverage	1	1.55 MHz	fully counter-clockwise	L12	maximum
	2	4.55 MHz	fully clockwise	CT5-2	maximum
Tracking	1	1.55 MHz	tune in 1.55 MHz	L8	maximum

Note: Repeat above steps two or three times until desired result is obtained ending with step 2 (frequency coverage).

Adjustment Location:

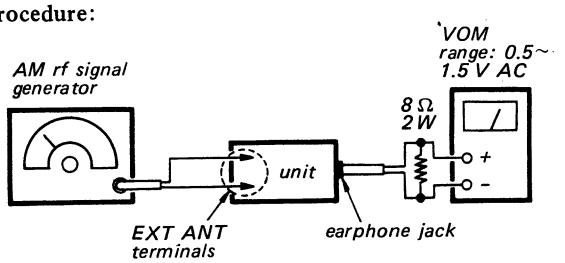


5. SW2 Frequency Coverage and Tracking Adjustments

Settings:

BAND SELECT switch:	SW2
VOLUME control:	MAX
TONE controls:	MAX
AM SENS switch:	LOCAL

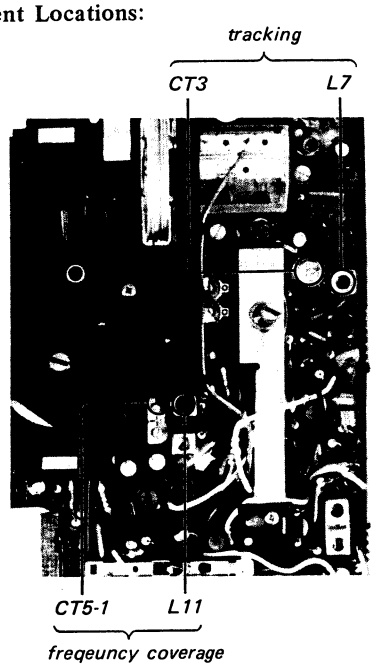
Procedure:



Adjustment	Step	AM rf signal generator frequency	Tuning knob	Adjust	VOM reading
Frequency Coverage	1	4.3 MHz	fully counter-clockwise	L11	maximum
	2	12.6 MHz	fully clockwise	CT5-1	maximum
Tracking	1	4.3 MHz	tune in 4.3 MHz	L7	maximum
	2	12.6 MHz	tune in 12.6 MHz	CT3	maximum

Note: Repeat above steps two or three times until desired result is obtained ending with steps 2.

Adjustment Locations:

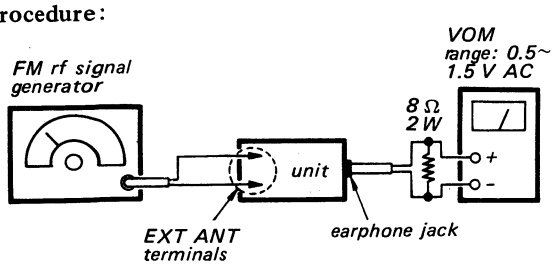


6. FM I-f Alignment and Discriminator Adjustment

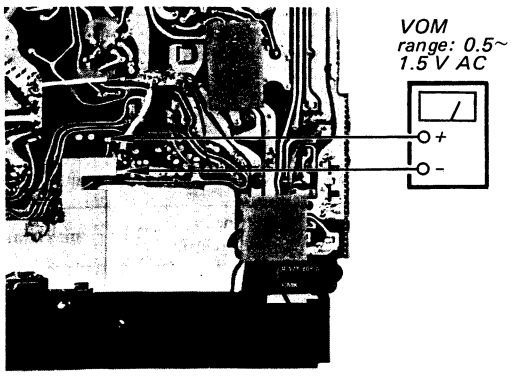
Settings:

BAND SELECT switch:	FM
VOLUME control:	MAX
TONE controls:	MAX
AFC switch:	OFF

Procedure:

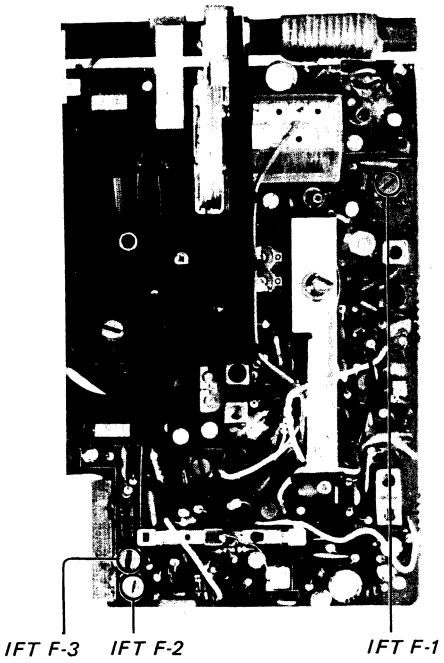


VOM connection for step 4.



Step	FM rf signal generator frequency	Tuning knob	Adjust	VOM reading
1	10.7 MHz with FM modulation	No station, no beating position	Rf signal generator frequency	maximum
2	- ditto -	- ditto -	IFT F-1~3	maximum
3	Repeat steps 1 and 2 two or three times.			
4	Turn modulation off. Increase output a little.	- ditto -	IFT F-3	"0 V DC"

Adjustment Locations:

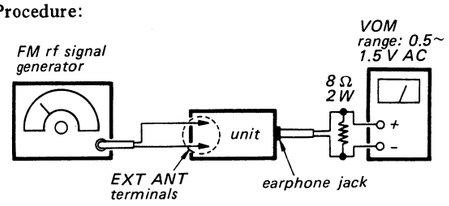


7. FM Frequency Coverage and Tracking Adjustments

Settings:

BAND SELECT switch:	FM
VOLUME control:	MAX
TONE controls:	MAX
AFC switch:	OFF

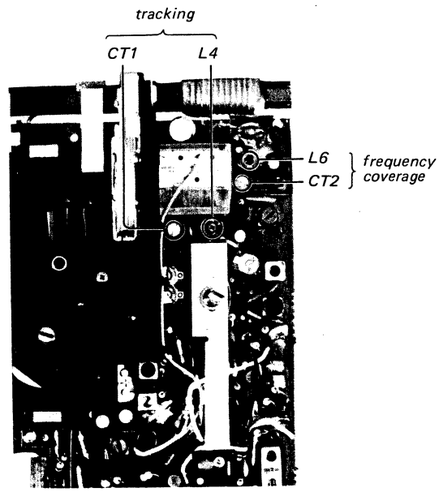
Procedure:



Adjustment	Step	AM rf signal generator frequency	Tuning knob	Adjust	VOM reading
Frequency Coverage	1	87.1 MHz	fully counter-clockwise	L6	maximum
	2	108.5 MHz	fully clockwise	CT2	maximum
Tracking	1	87.1 MHz	fully counter-clockwise	L4	maximum
	2	108.5 MHz	fully clockwise	CT1	maximum

Note: Repeat above steps two or three times until desired result is obtained ending with steps 2. Fix L4 with wax after adjustment.

Adjustment Locations:

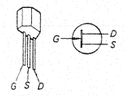


MEMO

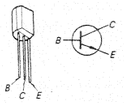
SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

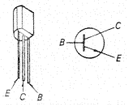
Q1: 2SK40



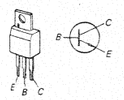
Q2~6,
8~11: 2SC710



Q7,13,14: 2SC945

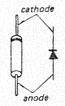


Q15,16: 2SC1429

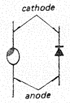


CX-1: CX-025D

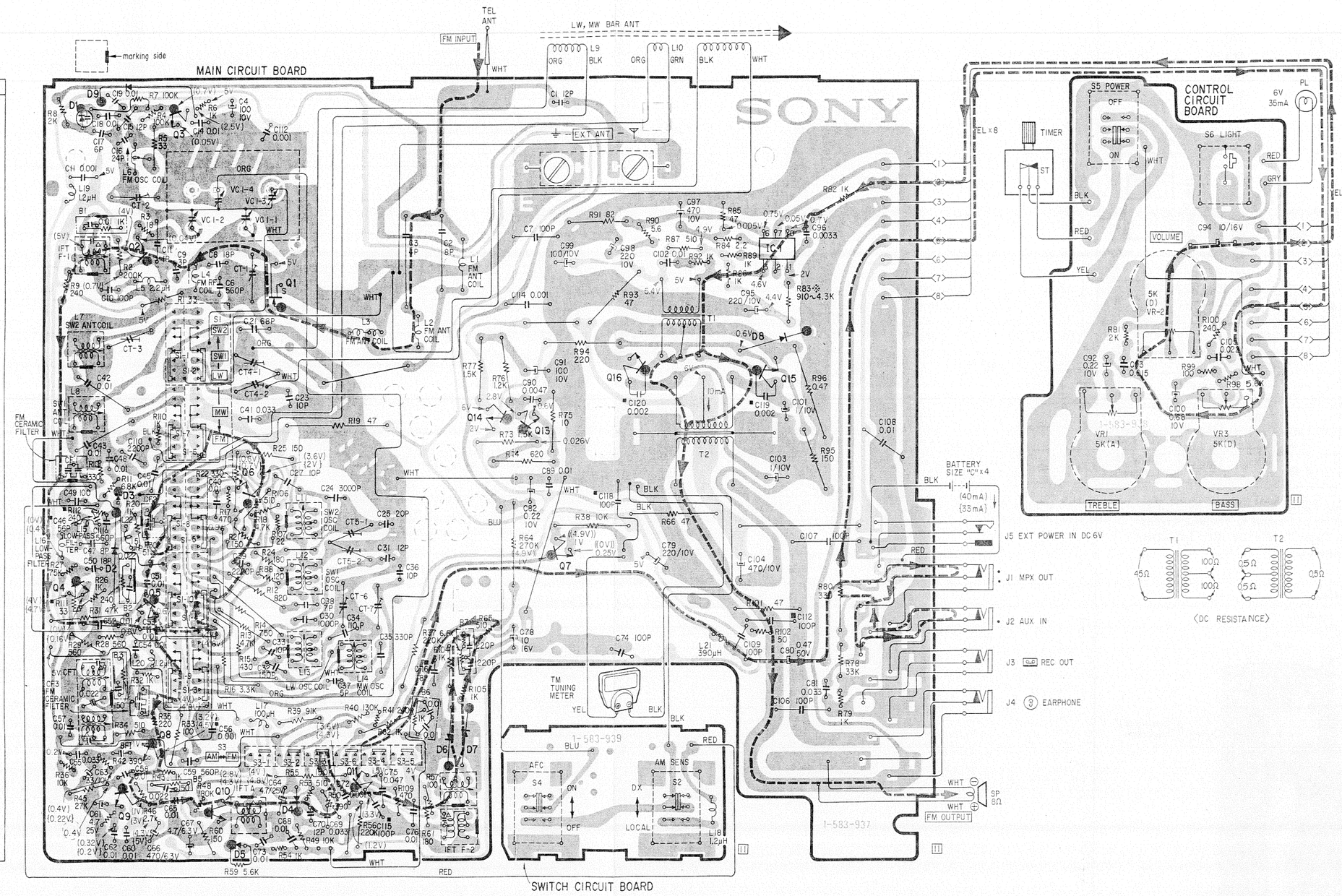
D1: 1S2139C
D2~4: 1S1555
D5,9: 1T23
D6,7: 1T26



D8: 1S1209



D	IC , Q
D9	
D1	Q3
	IC1
	Q2
	Q1
D8	
	Q15
	Q16
	Q13
	Q14
D3	Q6
D2	Q7
	Q4
	Q5
D6	
D7	Q8
	Q11
D4	Q9
	Q10
D5	

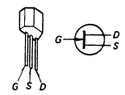


Note:
: FM signal path
: B+ pattern

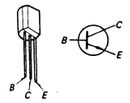
SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

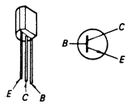
Q1: 2SK40



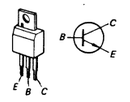
Q2~6, 8~11: 2SC710



Q7,13,14: 2SC945

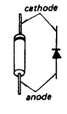


Q15,16: 2SC1429

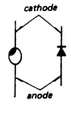


CX-1: CX-025D

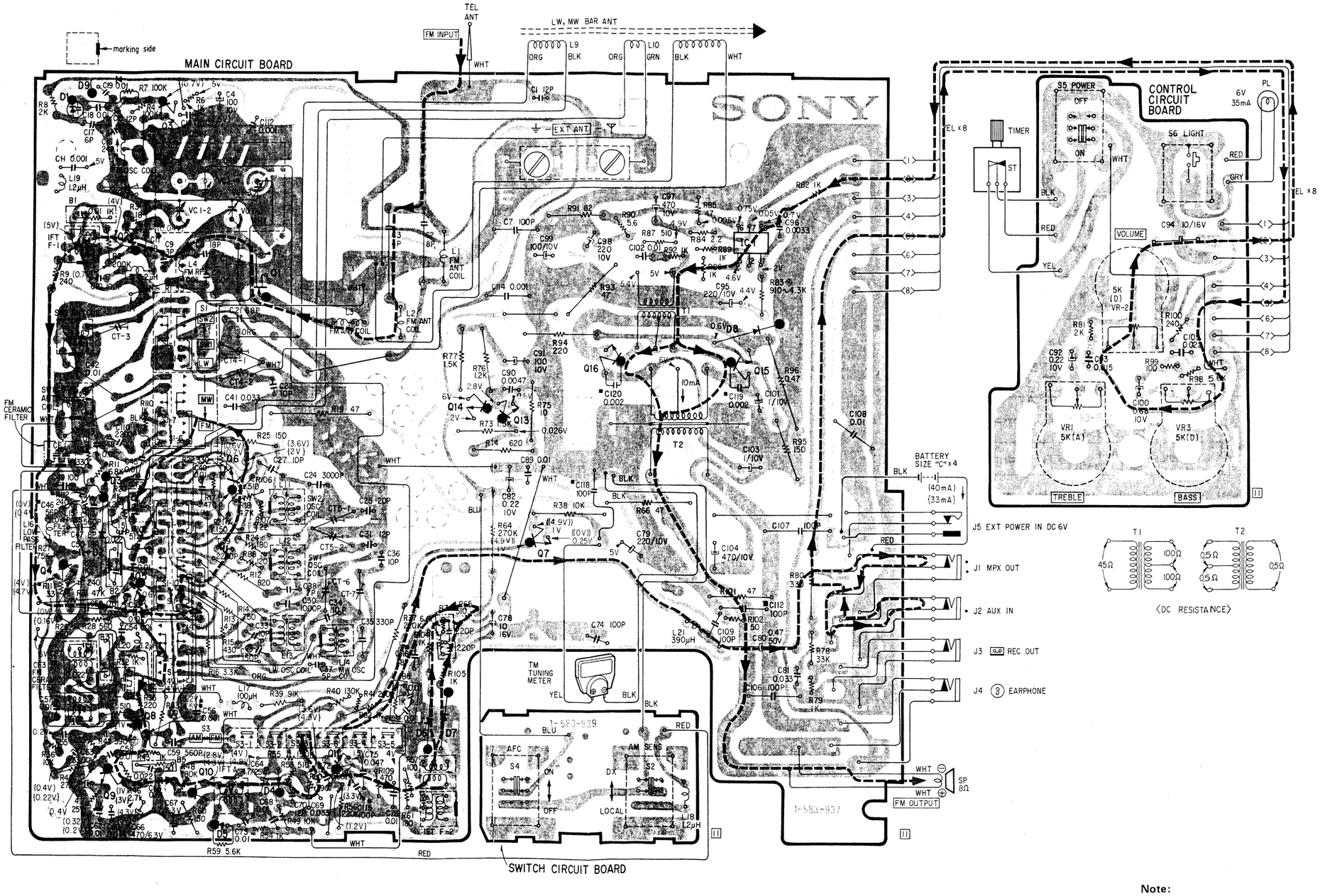
D1: 1S2139C
D2~4: 1S1555
D5,9: 1T23
D6,7: 1T26



D8: 1S1209

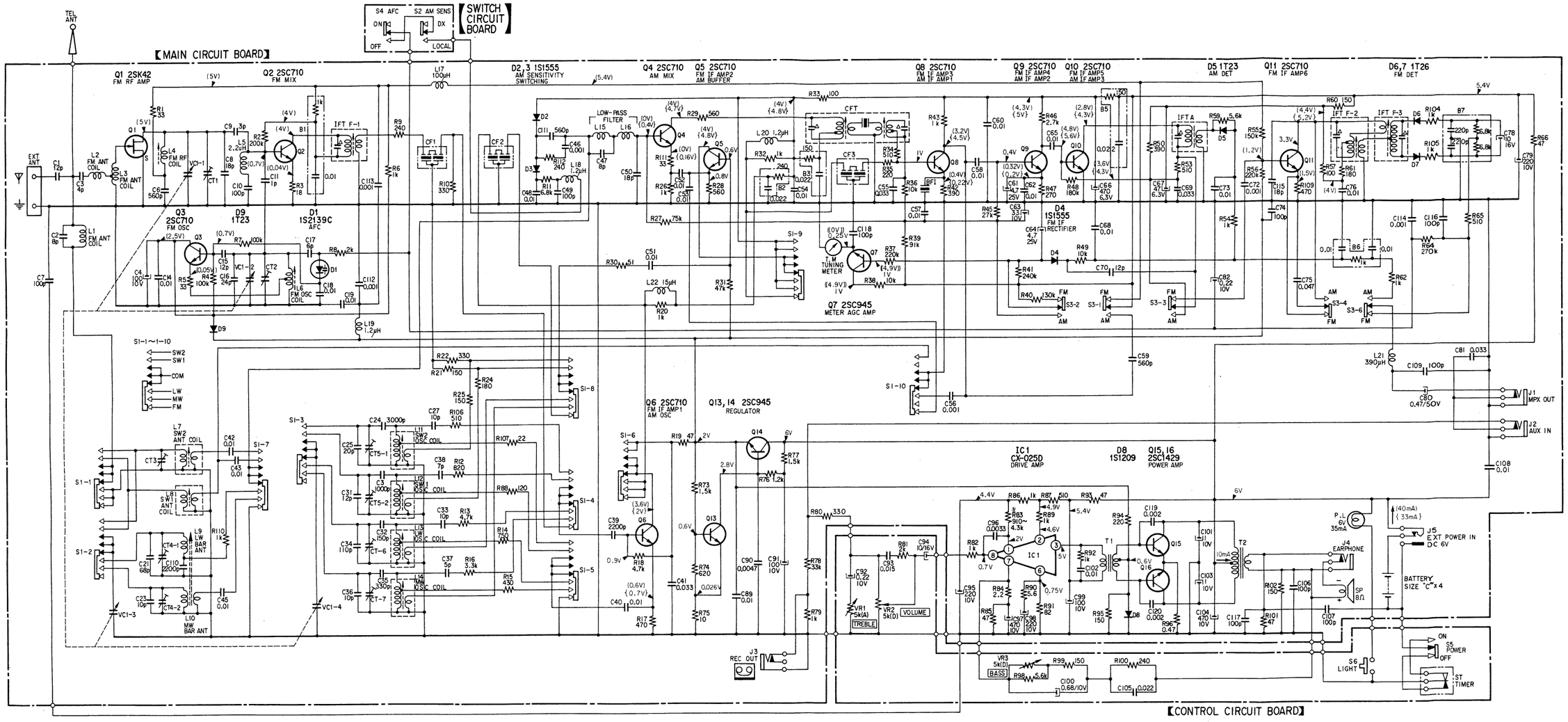


D	IC , Q
D9	
D1	Q3
	IC1
	Q2
	Q1
D8	
	Q15
	Q16
	Q13
	Q14
D3	Q6
D2	Q7
	Q4
	Q5
D6	
D7	Q8
	Q11
D4	Q9
	Q10
D5	



Note:
▬▸▬ : FM signal path
▒▒▒ : B+ pattern

4-2. SCHEMATIC DIAGRAM



Note:

- All capacitors are in μF unless otherwise noted. p = μμF
- All resistors are in Ω, ¼ W, unless otherwise noted. k = 1,000 M = 1,000 k
- Coil resistances are out-of-circuit values.
- △ indicates internal components.
- Voltages are DC with respect to ground unless otherwise noted. Readings taken under no-signal conditions with a VOM (20 kΩ/V).
  ( ): FM
  { }: AM
  (( )): at tuned-in condition
  no mark: common for FM and AM
  Voltage variations may be noted due to normal production tolerances.

- Switch Mode:

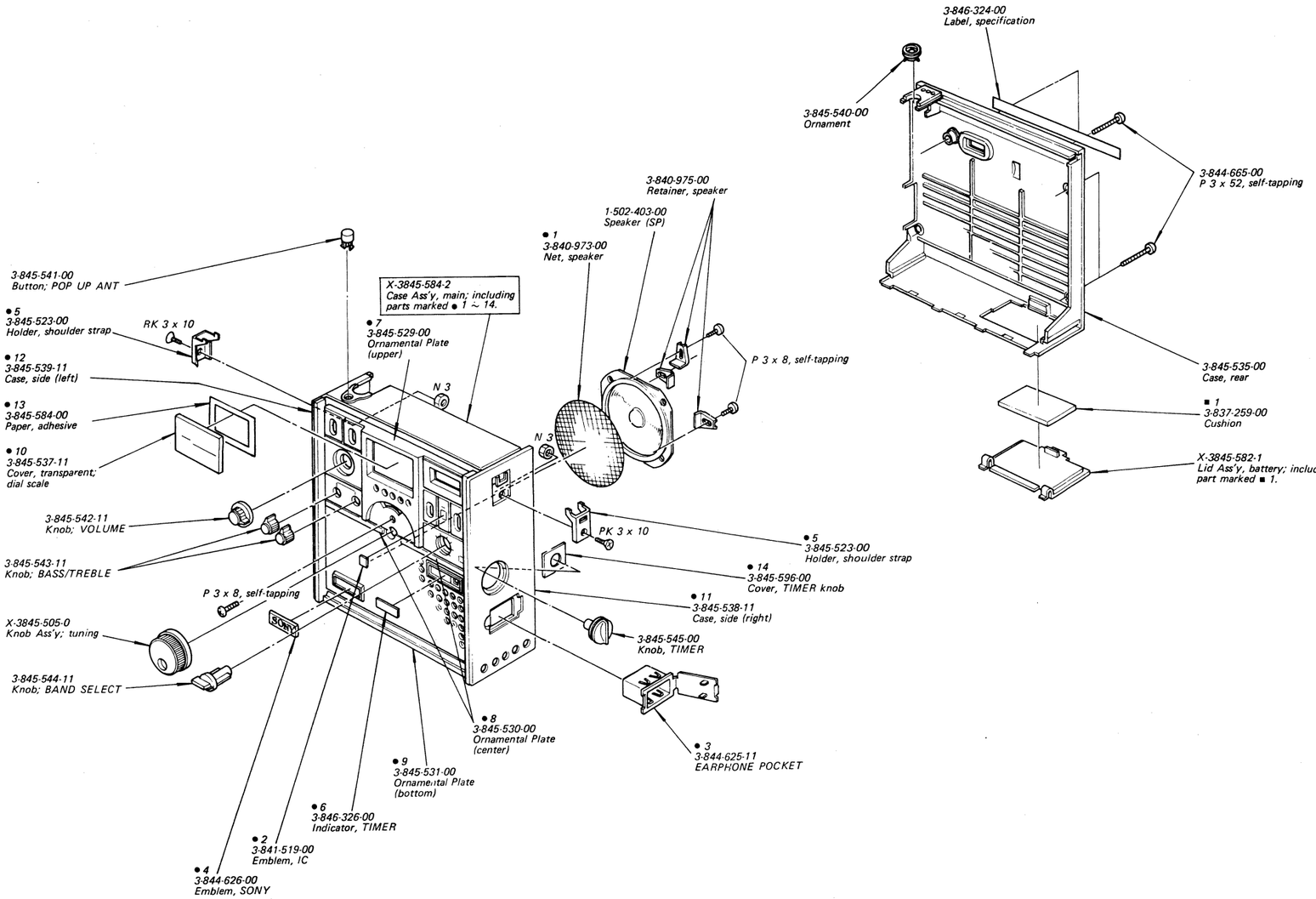
Ref. No.	Switch	Position
S1-1~10	BAND SELECT	FM
S2	AM SENS	DX
S3-1~6	FM/AM	FM
S4	AFC	ON
S5	POWER	OFF
S6	LIGHT	OFF
ST	TIMER	OFF

- R83 (※) is to be selected.

IC1 \ Q15,16	2SC1429-3	2SC1429-4
CX-025-10	4.3 k	1.5 k
CX-025-20	1.5 k	910

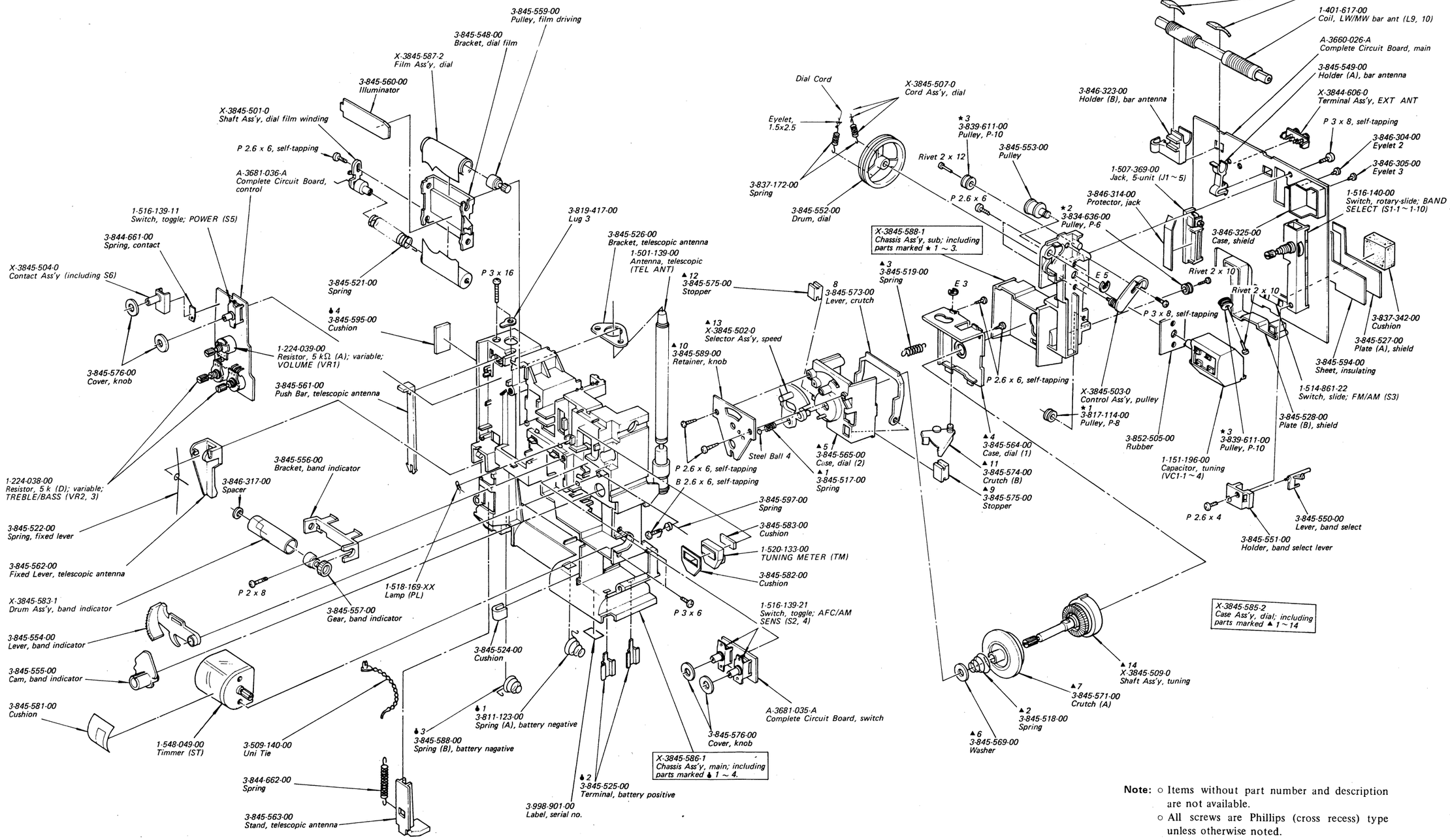
SECTION 5
EXPLODED VIEWS

5-1.

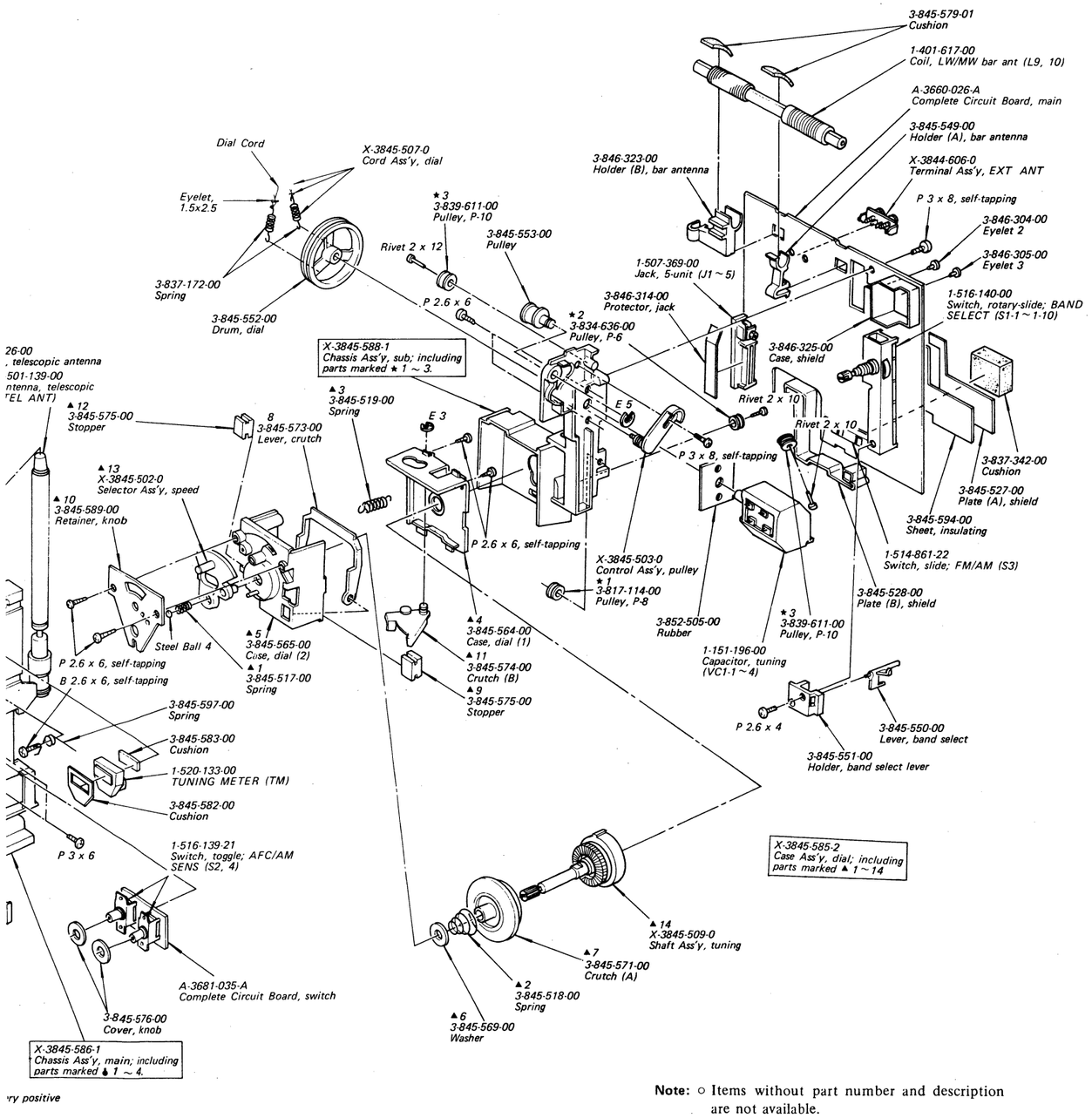


Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

5-2.



Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head



Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

SECTION 6
ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	COMPLETE CIRCUIT BOARDS	
	A-3660-026-A	Main
	A-3681-035-A	Switch
	A-3681-036-A	Control
	SEMICONDUCTORS	
CX-1		Integrated Circuit, CX-025D
	Transistors	
Q1		2SK42
Q2~6		2SC710
Q7		2SC945
Q8~11		2SC710
Q13,14		2SC945
Q15,16		2SC1429
	Diodes	
D1		1S2139C
D2~4		1S1555
D5		1T23
D6,7		1T26
D8		1S1209
D9		1T23
	COILS	
L1	1-401-456-00	FM Ant
L2	1-401-527-00	FM Ant
L3	1-401-455-00	FM Ant
L4	1-425-739-00	FM RF
L5	1-407-182-00	2.2 μH, microinductor
L6	1-405-568-00	FM OSC
L7	1-401-618-00	SW2 Ant
L8	1-401-619-00	SW1 Ant
L9,10	1-401-617-00	LW/MW Bar Ant
L11	1-405-679-00	SW2 OSC
L12	1-405-678-00	SW1 OSC
L13	1-405-680-00	LW OSC
L14	1-405-520-00	MW OSC
L15,16	1-401-495-00	Low-pass Filter
L17	1-407-169-00	100 μH, microinductor
L18~20	1-407-179-00	1.2 μH, microinductor
L21	1-407-176-00	390 μH, microinductor
L22	1-407-159-00	15 μH, microinductor
	TRANSFORMERS	
CFT	1-403-829-21	Ceramic Filter
IFT A	1-403-137-00	AM IFT
IFT-F1	1-403-872-00	FM IFT
IFT-F2	1-403-869-00	FM discri (primary)
IFT-F3	1-403-870-00	FM discri (secondary)
T1	1-423-159-00	Driver
T2	1-427-306-00	Output

CAPACITORS

All capacitors are μF unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. (elect = electrolytic, p = μμF)

C1	1-102-949-11	12p		ceramic
C2	1-102-945-11	8p		ceramic
C3	1-102-937-11	4p		ceramic
C4	1-121-414-11	100	10V	elect
C6	1-102-115-11	560p		ceramic
C7	1-102-975-11	100p		ceramic
C8	1-102-953-11	18p		ceramic
C9	1-102-936-11	3p		ceramic
C10	1-102-975-11	100p		ceramic
C11	1-102-934-11	1p		ceramic
C14	1-102-833-12	0.01		mylar
C15	1-102-949-11	12p		ceramic

Ref. No.	Part No.		Description
C16	1-102-721-11	24p	ceramic
C17	1-102-943-11	6p	ceramic
C18,19	1-101-923-11	0.01	ceramic
C21	1-101-888-11	68p	ceramic
C23	1-102-947-11	10p	ceramic
C24	1-103-636-11	3000p	polystyrene
C25	1-102-801-11	20p	ceramic
C27	1-102-947-11	10p	ceramic
C30	1-103-625-11	1000p	polystyrene
C31	1-102-288-11	12p	ceramic
C32	1-107-089-11	150p	silvered mica
C33	1-102-947-11	10p	ceramic
C34	1-107-086-11	110p	silvered mica
C35	1-107-097-11	330p	silvered mica
C36	1-101-997-11	10p	ceramic
C37	1-102-942-11	5p	ceramic
C38	1-102-944-11	7p	ceramic
C39	1-102-100-11	2200p	ceramic
C40	1-105-833-12	0.01	mylar
C41	1-105-839-12	0.033	mylar
C42,43,45	1-101-923-11	0.01	ceramic
C46	1-105-821-12	0.001	mylar
C47	1-102-945-11	8p	ceramic
C48	1-101-923-11	0.01	ceramic
C49	1-102-975-11	100p	ceramic
C50	1-102-953-11	18p	ceramic
C51,52	1-101-923-11	0.01	ceramic
C53,54	1-105-833-12	0.01	mylar
C55	1-105-839-12	0.033	mylar
C56	1-102-074-11	0.001	ceramic
C57,58	1-105-833-12	0.01	mylar
C59	1-102-115-11	560p	ceramic
C60	1-105-833-12	0.01	mylar
C61	1-121-395-11	4.7 25V	elect
C62	1-105-833-12	0.01	mylar
C63	1-121-402-11	33 10V	elect
C64	1-121-395-11	4.7 25V	elect
C65	1-105-833-12	0.01	mylar
C66	1-121-425-11	470 10V	elect
C67	1-121-487-11	47 6.3V	elect
C68	1-105-833-12	0.01	mylar

Ref. No.	Part No.		Description
C69	1-105-839-12	0.033	mylar
C70	1-102-949-11	12p	ceramic
C72	1-102-074-11	0.001	ceramic
C73	1-105-833-12	0.01	mylar
C74	1-102-975-11	100p	ceramic
C75	1-101-925-11	0.047	ceramic
C76	1-105-833-12	0.01	mylar
C78	1-121-651-11	10 16V	elect
C79	1-121-420-11	220 10V	elect
C80	1-121-726-11	0.47 50V	elect
C81	1-105-839-12	0.033	mylar
C82	1-127-020-11	0.22	solid
C89	1-105-833-12	0.01	mylar
C90	1-105-829-12	0.0047	mylar
C91	1-121-414-11	100 10V	elect
C92	1-127-020-11	0.22	solid
C93	1-105-835-12	0.015	mylar
C94	1-121-651-11	10 16V	elect
C95	1-121-420-11	220 10V	elect
C96	1-105-827-12	0.0033	mylar
C97	1-121-425-11	470 10V	elect
C98	1-121-420-11	220 10V	elect
C99	1-121-414-11	100 10V	elect
C100	1-127-378-11	0.68 10V	elect
C101	1-127-023-11	1 10V	elect
C102	1-105-833-12	0.01	mylar
C103	1-127-023-11	1 10V	elect
C104	1-121-425-11	470 10V	elect
C105	1-105-837-12	0.022	mylar
C106,107	1-102-975-11	100p	ceramic
C108	1-101-923-11	0.01	ceramic
C109	1-102-975-11	100p	ceramic
C110	1-102-100-11	2200p	ceramic
C111	1-102-115-11	560p	ceramic
C112~114	1-101-918-11	0.001	ceramic
C115	1-102-953-11	18p	ceramic
C116~118	1-102-975-11	100p	ceramic
C119,120	1-102-100-11	2200p	ceramic
CT1,2	1-141-097-21	Trimmer (single)	
CT3	1-141-097-31	Trimmer (single)	

Ref. No.	Part No.	Description
CT4-1~2	1-141-144-00	Trimmer (2-unit)
CT5-1~2	1-141-146-00	Trimmer (2-unit)
CT6,7	1-141-097-31	Trimmer (single)
VC1-1~4	1-151-196-00	Tuning

RESISTORS

All resistors are in Ω. ¼W, ± carbon resistors (except special type) are omitted. Check schematic diagram for the resistance values.

R9	1-202-368-11	240		composition
R29	1-202-377-11	560		composition
R33	1-202-359-11	100		composition
R54	1-202-383-11	1k		composition
R56	1-202-439-11	220k		composition
R59	1-202-591-11	240		composition
R78	1-202-419-11	33k		composition
R79	1-202-383-11	1k		composition
R96	1-207-459-11	0.47	½W	metal wire
R111	1-202-337-11	33		composition
VR1	1-224-039-00	5k (A), variable; TREBLE		
VR2,3	1-224-038-00	5k (D), variable; VOLUME/BASS		

ENCAPSULATED COMPONENTS, CR

B1	1-231-221-00	0.01 μF + 1 kΩ
B2	1-231-223-00	0.022 μF + 240 Ω
B3,5	1-231-222-00	0.022 μF + 150 Ω
B6	1-231-204-11	0.01 μF + 0.01 μF + 1 kΩ
B7	1-231-202-00	220 pF + 220 pF + 6.8 kΩ + 6.8 kΩ

Ref. No.	Part No.	Description
	SWITCHES	
S1	1-516-140-00	Rotary-slide, BAND SELECT
S2	1-516-139-21	Toggle, AM SENS
S3	1-514-861-22	Slide, FM/AM
S4	1-516-139-21	Toggle, AFC
S5	1-516-139-11	Toggle, POWER
S6		Included in Contact Ass'y (X-3845-504-0)
S7	1-548-049-00	Timer
	MISCELLANEOUS	
BFI	1-403-997-00	Filter, ceramic
CF1~3	1-527-198-51	Filter, ceramic
J1~5	1-507-369-00	Jack, 5-unit
PL	1-518-169-xx	Lamp
SP	1-502-403-00	Speaker
TM	1-520-133-00	TUNING METER
TEL ANT	1-501-139-00	Antenna, telescopic
	ACCESSORIES & PACKING MATERIALS	
	X-3847-902-0	Shoulder Strap Ass'y
	1-504-034-12	Earphone, ME-20
	3-701-239-00	Bag, plastic
	3-845-590-00	Carton
	3-845-592-00	Cushion
	3-845-593-12	Cushion
	3-846-303-00	Sheet, packing
	3-995-709-11	Manual, instruction
	3-998-901-00	Label, serial No.

Ref. No.	Part No.	Description		
CT4-1~2	1-141-144-00	Trimmer (2-unit)		
CT5-1~2	1-141-146-00	Trimmer (2-unit)		
CT6,7	1-141-097-31	Trimmer (single)		
VC1-1~4	1-151-196-00	Tuning		

RESISTORS

All resistors are in Ω. ¼W, ± carbon resistors (except special type) are omitted. Check schematic diagram for the resistance values.

R9	1-202-368-11	240		composition
R29	1-202-377-11	560		composition
R33	1-202-359-11	100		composition
R54	1-202-383-11	1 k		composition
R56	1-202-439-11	220k		composition
R59	1-202-591-11	240		composition
R78	1-202-419-11	33k		composition
R79	1-202-383-11	1k		composition
R96	1-207-459-11	0.47	½W	metal wire
R111	1-202-337-11	33		composition
VR1	1-224-039-00	5k (A), variable; TREBLE		
VR2,3	1-224-038-00	5k (D), variable; VOLUME/BASS		

ENCAPSULATED COMPONENTS, CR

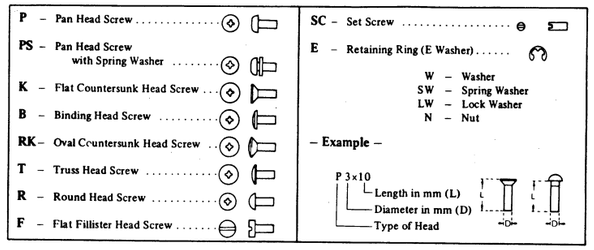
B1	1-231-221-00	0.01 μF + 1 kΩ
B2	1-231-223-00	0.022 μF + 240 Ω
B3,5	1-231-222-00	0.022 μF + 150 Ω
B6	1-231-204-11	0.01 μF + 0.01 μF + 1 kΩ
B7	1-231-202-00	220 pF + 220 pF + 6.8 kΩ + 6.8 kΩ

Ref. No.	Part No.	Description
		SWITCHES
S1	1-516-140-00	Rotary-slide, BAND SELECT
S2	1-516-139-21	Toggle, AM SENS
S3	1-514-861-22	Slide, FM/AM
S4	1-516-139-21	Toggle, AFC
S5	1-516-139-11	Toggle, POWER
S6		Included in Contact Ass'y (X-3845-504-0)
S7	1-548-049-00	Timer
		MISCELLANEOUS
BFI	1-403-997-00	Filter, ceramic
CF1~3	1-527-198-51	Filter, ceramic
J1~5	1-507-369-00	Jack, 5-unit
PL	1-518-169-xx	Lamp
SP	1-502-403-00	Speaker
TM	1-520-133-00	TUNING METER
TEL ANT	1-501-139-00	Antenna, telescopic
		ACCESSORIES & PACKING MATERIALS
	X-3847-902-0	Shoulder Strap Ass'y
	1-504-034-12	Earphone, ME-20
	3-701-239-00	Bag, plastic
	3-845-590-00	Carton
	3-845-592-00	Cushion
	3-845-593-12	Cushion
	3-846-303-00	Sheet, packing
	3-995-709-11	Manual, instruction
	3-998-901-00	Label, serial No.

Part No.	Description
	HARDWARE
	SCREWS
	All screws are Phillips type (cross recess type) unless otherwise indicated. (–); slotted head
7-621-259-25	P 2.6 x 4
7-621-259-45	P 2.6 x 6
7-682-147-01	P 3 x 6
7-682-156-01	P 3 x 16

Part No.	Description
7-685-105-21	P 2 x 8, self-tapping
7-685-133-21	P 2.6 x 6, self-tapping
7-685-146-21	P 3 x 8, self-tapping
7-685-533-21	B 2.6 x 6, self-tapping
7-623-610-01	Eyelet 1.5 x 2.5
7-623-616-01	Eyelet 2 x 3
7-625-209-00	Rivet 2 x 10
7-633-120-32	Dial Cord, 0.5 mm
7-633-120-43	Dial Cord, 0.3 mm

– Hardware Nomenclature –


P – Pan Head Screw
PS – Pan Head Screw with Spring Washer
K – Flat Countersunk Head Screw
B – Binding Head Screw
RK – Oval Countersunk Head Screw
T – Truss Head Screw
R – Round Head Screw
F – Flat Fillister Head Screw
SC – Set Screw
E – Retaining Ring (E Washer)
W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut
– Example –
P 3x10
Length in mm (L)
Diameter in mm (D)
Type of Head

9-950-316-01

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